## **CLAIMS**

## What is claimed:

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- 1. A process for preparing a hemostatic device, comprising:
- (a) suspending a plurality of collagen particles in water to form a collagen slurry, wherein the collagen particles have a bulk density sufficient to form a suspension in water and wherein the collagen slurry has a collagen concentration in the range of about 1% to about 2% (weight/volume); and
  - (b) lyophilizing the collagen slurry to form a hemostatic device.
- 10 2. The process of claim 1, wherein the collagen particles comprise collagen fibrils
  - 3. The process of claim 1, wherein the collagen particles have a bulk density in the range of about 1.5 lbs/ft³ to about 3.5 lbs/ft³.
- 15 4. The process of claim 1, wherein the process comprises the further step of: introducing the collagen slurry into a mold prior to lyophilizing the collagen slurry.
  - 5. The process of claim 1, wherein the process further comprises the step of crosslinking the hemostatic device to form a crosslinked-hemostatic device.
  - 6. The process of claim 1, comprising the further step of introducing a hemostatic agent into one or both of the collagen slurry and the hemostatic device.
- 7. The process of claim 1, comprising the further step of introducing a hemostatic agent into one or both of the collagen slurry and the hemostatic device.
  - 8. The process of claim 1, comprising the further step of removing a surface layer of the hemostatic device.
- 30 9. A hemostatic device prepared by the process comprising:
  - (a) suspending a plurality of collagen particles in water to form a collagen slurry, wherein

the collagen particles have a bulk density sufficient to form a suspension in water and wherein the collagen slurry has a collagen concentration in the range of about 1% to about 2% (weight/volume); and

(b) lyophilizing the collagen slurry to form a hemostatic device.

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- 10. The product of claim 9, wherein the collagen particles comprise microfibrillar collagen.
- 11. The product of claim 9, wherein the collagen particles have a bulk density in the range of about 1.5 lbs/ft<sup>3</sup> to about 3.5 lbs/ft<sup>3</sup>.
  - 12. The product of claim 9, wherein the process comprises the further step of introducing the collagen slurry into a mold prior to lyophilizing the collagen slurry.
- 15 13. The product of claim 9, wherein the process further comprises the step of crosslinking the hemostatic device to form a crosslinked-hemostatic device.
  - 14. The product of claim 9, wherein the process further comprises the step of removing a surface layer of the hemostatic device.
  - 15. The product of claim 9, wherein the process further comprises the step introducing into the hemostatic device, a hemostasis-promoting amount of at least one hemostatic agent effective to accelerate clot formation at an interface between a wound surface and the hemostatic device.
  - 16. The product of claim 9, wherein the process further comprises the step introducing into the hemostatic device, a therapeutically-effective amount of at least one therapeutic agent.
  - 17. A sterile package containing the hemostatic device of claim 9.
  - 18. A method for promoting hemostasis comprising, manually pressing the hemostatic 219905.1

device of claim 9 against a bleeding surface for a period of time until clotting has occurred at the interface between the hemostatic device and the surface.

- 19. A hemostatic device, wherein the collagen particles of the hemostatic device have a hemostatic activity that is equivalent to the hemostatic activity of the collagen particles from which the hemostatic device is formed.
  - 20. The hemostatic device of claim 19, wherein the hemostatic device is a foam.
- 10 21. The hemostatic device of claim 19, wherein the hemostatic device does not contain thrombin and the hemostatic device has a hemostatic activity in a pig spleen animal model that is greater than that of Gelfoam ® with thrombin.
- 22. The hemostatic device of claim 19, wherein the hemostatic device has a thickness of about 3/8 inch and an acute maximum load of greater than or equal to 0.08 lbs.
  - 23. The hemostatic device of claim 19, wherein the hemostatic device is dry and has a modulus of less than or equal to 86 psi.
- 20 24. The hemostatic device of claim 19, wherein the hemostatic device has a wettability index of less than or equal to 1 minute in distilled water at room temperature.
  - 25. The hemostatic device of claim 19, further comprising a hemostasis-promoting amount of at least one hemostatic agent effective to accelerate clot formation at an interface between a wound surface and the hemostatic device.
  - 26. The hemostatic device of claim 19, further comprising a therapeutically-effective amount of at least one therapeutic agent.

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The hemostatic device of claim 19, further comprising a hemostasis-promoting amount of at least one hemostatic agent effective to accelerate clot formation at an interface between a

wound surface and the hemostatic device.

- 28. A sterile package containing a hemostatic device of claim 19.
- A method for promoting hemostasis comprising, manually pressing a hemostatic device of claim 19 against a bleeding surface for a period of time until clotting has occurred at the interface between the hemostatic device and the surface.
- 30. A hemostatic device comprising collagen, wherein the hemostatic device has a hemostatic activity in a pig spleen animal model of hemostasis that corresponds to one tamponade for a hemostatic device having a thickness of 3/8 inch, a length of ½ inch, and a width of ½ inch.
- 31. The hemostatic device of claim 30, wherein the hemostatic device does not contain thrombin and the hemostatic device has a hemostatic activity in a pig spleen animal model that is greater than that of Gelfoam ® with thrombin.
  - 32. The hemostatic device of claim 30, wherein the hemostatic device has a density in the range of about 0.015 to about 0.023 gm/cc.
  - 33. The hemostatic device of claim 30, wherein the hemostatic device has a weight percent solids in the range of about 1.10 to about 1.64 weight percent.
- 34. The hemostatic device of claim 30, wherein the hemostatic device has a thickness of about 3/8 inch and an acute maximum load of greater than or equal to 0.08 lbs.
  - 35. The hemostatic device of claim 30, wherein the hemostatic device is dry and has a modulus of less than or equal to 86 psi.
- 36. The hemostatic device of claim 30, wherein the hemostatic device has a wettability index of less than or equal to 1 minute in distilled water at room temperature.

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- 37. The hemostatic device of claim 30, further comprising a hemostasis-promoting amount of at least one hemostatic agent effective to accelerate clot formation at an interface between a wound surface and the hemostatic device.
- 5 38. The hemostatic device of claim 30, further comprising a therapeutically-effective amount of at least one therapeutic agent.
- 39. A hemostatic device comprising collagen, wherein the hemostatic device is dry and sufficiently flexible to conform to the contours of a biological surface and absorb exudants
  present at the biological surface.